

USER'S MANUAL

PS-6505

Intel® Pentium® M

15" Point-of-Sale Terminal

PS-6505 M0

PS-6505 POS System

With LCD / Touchscreen

OPERATION MANUAL

COPYRIGHT NOTICE

This operation manual is meant to assist users in installing and setting up the system. The information contained in this document is subject to change without prior any notice.

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CE NOTICE

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

WARNING! Some internal parts of the system may have high electrical voltage. And therefore we strongly recommend that qualified engineers can open and disassemble the system.

The LCD and Touchscreen are easily breakable, please handle them with extra care.

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INTRODUCTION

CHAPTER

1

This chapter gives you the information for PS-6505. It also outlines the System specifications.

Section includes:

- About This Manual
- System Specifications
- Safety precautions

Experienced users can skip to chapter 2 on page 2-1 for a Quick Start.

1-1. ABOUT THIS MANUAL

Thank you for purchasing our PS-6505 POS System. The PS-6505 is an updated system designed to be comparable with the highest performance of IBM AT personal computers. The PS-6505 provides faster processing speed, greater expandability and can handle more tasks than before. This manual is designed to assist you how to install and set up the whole system. It contains four chapters. The user can apply this manual for configuration according to the following chapters :

Chapter 1 Introduction

This chapter introduces you to the background of this manual. It also includes illustration and the specification for the whole system. The final page of this chapter indicates some safety reminders on how to take care of your system.

Chapter 2 Hardware Configuration

This chapter outlines the Prox-6505 component's location and their function. In the end of this chapter, you will learn how to set jumper and how to configure this card to meet your own needs.

Chapter 3 Software Utilities

This chapter contains helpful information for proper installations of the Intel Utility, VGA Utility, LAN Utility, Sound Utility, Touch Screen Utility and Flash BIOS Update. It also describes the Wireless Utility.

Chapter 4 Award BIOS Setup

This chapter indicates you how to set up the BIOS configurations.

Appendix A System Assembly

This section gives you the exploded diagram for the whole system unit.

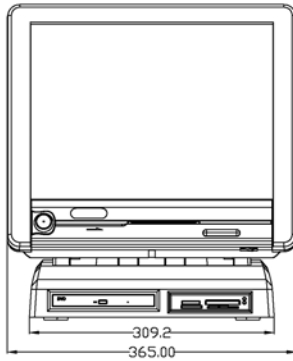
Appendix B Technical Summary

This section gives you the information about the Technical maps.

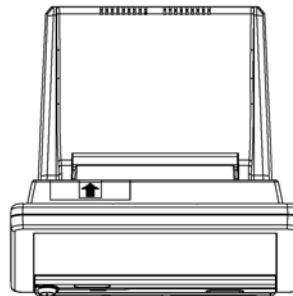
1-2. POS SYSTEM ILLUSTRATION

PS6505-POS

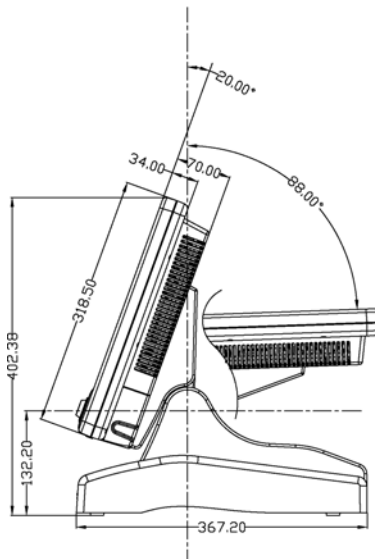
Front View



Top View



Side View

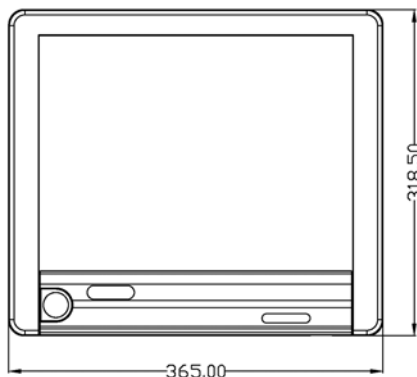


Quarter View

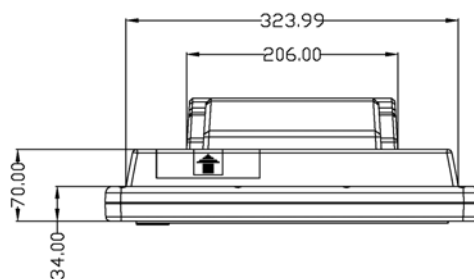


PS6505-PPC

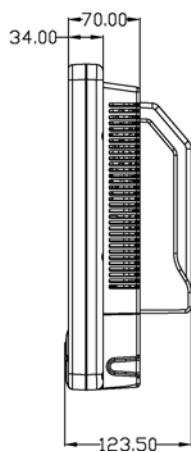
Front View



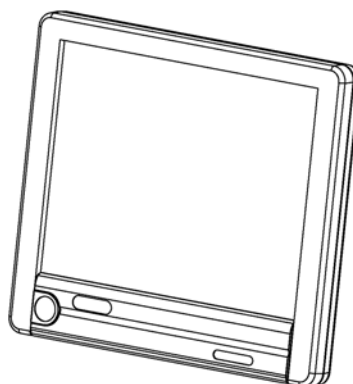
Top View



Side View



Quarter View



1-3. SYSTEM SPECIFICATIONS

MAINBOARD (PROX-6505)

- **CPU TYPE :**

Celeron-M 1.3GHz, Socket-478 CPU Socket on board
(Up to Celeron-M 1.5GHz; Pentium-M 2.0GHz)

- **CHIPSET :**

Intel 855GME + ICH4
(Support FSB=400MHz)

- **MEMORY :**

Up to 1GB
One 200-pin SO-DDR socket on board.

- **CACHE :**

Depended on CPU

- **REAL-TIME CLOCK / CALENDAR :**

Embedded in Intel ICH4 South Bridge

- **BIOS :**

PhoenixAward PnP BIOS
4Mbytes with VGA BIOS

- **KEYBOARD CONNECTOR :**

PC/AT Compatible, with mini DIN connector on rear panel.

- **MOUSE CONNECTOR :**

PS/2 Mouse, with mini DIN connector on rear panel.

- **IDE INTERFACE :**

Enhance DMA-33, 2 Channel

● **SERIAL PORT :**

Four high speed 16550 Compatible UARTs
COM1, COM2, COM3, COM4 all for RS-232,
COM4 for RS-232/422/485
(All with 5v/12v power capability)
COM 1,COM2 – External D-sub 9-pin connector on rear panel
COM 3,COM4 – External RJ45 connector on rear panel

● **PARALLEL PORT :**

Support SPP, ECP, EPP mode.
Bi-directional parallel port

● **UNIVERSAL SERIAL BUS PORT :**

Support up to 3 USB2.0 ports on rear panel.

● **LED INDICATOR :**

3 LED indicators (Power, HDD, LAN-on/working)

● **LAN FUNCTION :**

Intel® 82562EM (10/100Mbps Fast Ethernet.)
Interface: RJ-45 Jack on board

● **SOUND FUNCTION :**

Realtek ALC 202A, AC'97 Sound MAX® Codec
Integrated Sound Blaster / DirectSound AC97 audio.
1 Line-out connector on rear panel
1X2 pin header on board connecting to internal speaker (Max1.9Watt)

● **VGA FUNCTION :**

Built-in North Bridge
Support simultaneous display of CRT and LCD

● **BOARD DIMENSION :**

Prox-6505 277mm x 206mm

LCD PANEL

Type	XGA
Max. Resolution	XGA (1024 x 768)
Size/Type	15" / TFT
Viewing Angel (degree)	
Up	40
Down	60
Left	60
Right	60
Pixel Pitch	0.297 (W) x 0.297 (H)
Brightness	250 cd / m ²
Signal Interface (bit)	TTL (18-bit)
LCD MTBF	30,000
Back Light MTBF (Hrs)	30,000

TOUCHSCREEN (OPTIONAL)

TYPE	RESISTIVE (5 wire)
Resolution	1024 x 768
Controller	USB Interface
Power Consumption	+5V
Durability (Lifetime)	10 million

CARD READER (OPTIONAL)

TYPE	Triple Track
Function	Read
Interface	Keyboard Wedge
Speed	10-100cm/sec
Recording Method	F2F(FM)
Lift Cycle	300,000 passes
Voltage	+5V
Standard	ISO 7811

GENERAL INFORMATION

● POWER SUPPLY :

Model: FSP180-50PLA

Input: 100Vac /4A ~ 240Vac /3A, 50~60Hz

Output: +5VSB/2A, +5Vdc/12A, +12Vdc/10A (Maximum load)

Input Current: Max. 4.0A at 115 Vac

Dimension: 81.5mm x 150mm x 40.5mm

● DISK DRIVE HOUSING :

One slim HDD, One slim CD-ROM & One 3.5" HDD

● HOUSING CONSTRUCTION:

High quality plastic frame architecture

● DIMENSION :

365 x 405 x 367 mm (14.37" x 15.94" x 14.45") [W/Stand]

● NET WEIGHT :

Without Stand: 7kg

With Stand: 11kg (15.4lb)

1-4. SAFETY PRECAUTIONS

Following messages are safety reminders on how to protect your systems from damages. And thus, helps you lengthen the life cycle of the system.

1. Check the Line Voltage

- a. The operating voltage for the power supply should cover the range of 100VAC-240VAC, otherwise the system may be damaged.

2. Environmental Conditions

- a. Place your PS-6505 on a sturdy, level surface. Be sure to allow enough room on each side to have easy access.
- b. Avoid extremely hot or cold places to install your PS-6505 Book-sized PC.
- c. Avoid exposure to sunlight for a long period of time (for example in a closed car in summer time. Also avoid the system from any heating device.). Or do not use PS-6505 when it's been left outdoors in a cold winter day.
- d. Bear in mind that the operating ambient temperature is from 0°C up to +40°C.
- e. Avoid moving the system rapidly from a hot place to a cold place or vice versa because condensation may come from inside of the system.
- f. Place PS-6505 against strong vibrations, which may cause hard disk failure.
- g. Do not place the system too close to any radio active device. Radio-active device may cause interference.
- h. Always shutdown the operation system before turning off the power.

3. Handling

- a. Avoid putting heavy objects on top of the system.
- b. Do not turn the system upside down. This may cause the floppy drive and hard drive to mal-function.
- c. Do not remove the diskette from the Floppy drive while the light is still on. If you remove the diskette while the light is on, you may damage the information on the diskette.

4. Good Care

- a. When the outside of the case is stained, remove the stain with neutral washing agent with a dry cloth.
- b. Never use strong agents such as benzene and thinner to clean the system.
- c. If heavy stains are present, moisten a cloth with diluted neutral washing

- agent or with alcohol and then wipe thoroughly with a dry cloth.
- d. If dust has been accumulated on the outside, remove it by using a special made vacuum cleaner for computers.

SYSTEM CONFIGURATION

CHAPTER

2

Helpful information that describes the jumper & connector settings, and component locations.

Section includes:

- Jumper & Connector Quick Reference Table
- Component Locations
- Configuration and Jumper settings
- Connector Pin Assignments

2-1. JUMPER & CONNECTOR QUICK REFERENCE TABLE

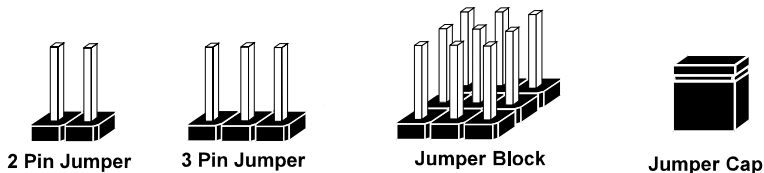
Connector & Jumper	Name	Page
Printer Connector	JPRNT1	2-6
COM Port Connector	COM1, COM2 COM3, COM3-2 COM4	2-7 2-8
COM1 RI and Voltage Selection	JP8	2-9
COM2 RI and Voltage Selection	JP9	2-10
COM3 RI and Voltage Selection	JP11	2-11
COM4 RI and Voltage Selection	JP12	2-12
RS232/422/485 (COM4) Selection	JP10	2-13
Keyboard & PS/2 Mouse Connector	KB-MS1	2-14
USB Connector	JUSB1, JUSB2, JUSB3	2-14 2-15
Cash Drawer Connector	DRW1	2-16
Cash Drawer Power Selection	JCASH1	2-16
LAN Connector	LAN1	2-17
Audio Connector	JLINE_OUT1	2-17
VGA Connector	VGA1	2-18
Power Connector	JATX2	2-19
Power Switch Connector	JPWR_SW1	2-19
Power/HDD/LAN LED Connector	JLED1	2-20
External Speaker Connector	CN_SPK2	2-20
Inverter Connector	JP6	2-20
MSR/ Card Reader Connector	CN_MSR1	2-21
LVDS Connector	J1	2-21
LVDS Panel 3.3V/5V Voltage Selection	JP4	2-22
Hard Disk Drive Connector	IDE1, IDE2-1, IDE2-2	2-23, 2-24, 2-25
Touch Panel Connector	JTP2	2-26
FAN Connector	JFAN_CPU1, JFAN_NB1	2-26
Clear CMOS Data Selection	JP7	2-27
PS_ON Function Selection	JP14	2-28
CPU FSB (Front Side Bus) Selection	JP1	2-29
CPU Host Clock Selection	JP2	2-30

2-3. HOW TO SET THE JUMPERS

You can configure your board by setting the jumpers. Jumper is consists of two or three metal pins with a plastic base mounted on the card, and by using a small plastic "cap", Also known as the jumper cap (with a metal contact inside), you are able to connect the pins. So you can set-up your hardware configuration by "opening" or "closing" pins.

The jumper can be combined into sets that called jumper blocks. When the jumpers are all in the block, you have to put them together to set up the hardware configuration. The figure below shows how this looks like.

JUMPERS AND CAPS

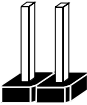


If a jumper has three pins for example, labelled PIN1, PIN2, and PIN3. You can connect PIN1 & PIN2 to create one setting and shorting. You can either connect PIN2 & PIN3 to create another setting. The same jumper diagrams are applied all through this manual. The figure below shows what the manual diagrams look and what they represent.

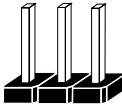
JUMPER DIAGRAMS



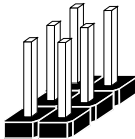
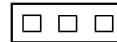
Jumper Cap looks like this



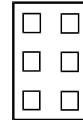
2 pin Jumper looks like this



3 pin Jumper looks like this



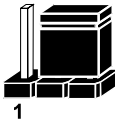
Jumper Block looks like this



JUMPER SETTINGS



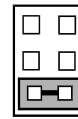
2 pin Jumper closed(enabled)
looks like this



3 pin Jumper
2-3 pin closed(enabled)
looks like this



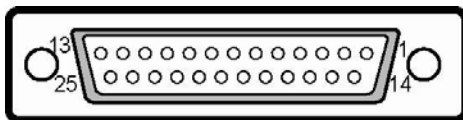
Jumper Block
1-2 pin closed(enabled)
looks like this



2-4. PRINTER CONNECTOR

JPRNT1 : Printer Connector

The Printer Connector assignments are as follows :



JPRNT1

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	STBJ	14	ALFJ
2	PDR0	15	ERRJ
3	PDR1	16	PAR_INITJ
4	PDR2	17	SLCTINJ
5	PDR3	18	GND
6	PDR4	19	GND
7	PDR5	20	GND
8	PDR6	21	GND
9	PDR7	22	GND
10	ACKJ	23	GND
11	BUSY	24	GND
12	PE	25	GND
13	SLCTJ		

2-5. COM PORT CONNECTOR

There are four COM ports enhanced in this board namely: COM1, COM2, COM3 and COM4.

COM1 : COM1 Connector

The COM1 Connector assignments are as follows :

PIN	ASSIGNMENT
1	DCD1
2	RXD1
3	TXD1
4	DTR1
5	GND
6	DSR1
7	RTS1
8	CTS1
9	RI / +5V / +12V selectable



COM2 : COM2 Connector

The COM2 Connector assignments are as follows :

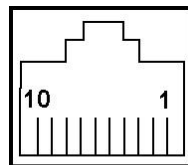
PIN	ASSIGNMENT
1	DCD2
2	RXD2
3	TXD2
4	DTR2
5	GND
6	DSR2
7	RTS2
8	CTS2
9	RI/+5V/+12 selectable



COM3/COM3-2 : COM3 and COM3-2 Connector

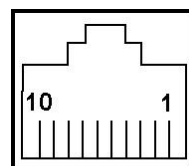
The pin assignments are as follows :

PIN	ASSIGNMENT
1	DCD3
2	RXD3
3	TXD3
4	DTR3
5	GND
6	DSR3
7	RTS3
8	CTS3
9	RI/+5V/+12 selectable
10	NC

**COM3****COM3-2****COM4 : COM4 Connector**

The pin assignments are as follows :

PIN	ASSIGNMENT
1	DCD4
2	RXD4
3	TXD4
4	DTR4
5	GND
6	DSR4
7	RTS4
8	CTS4
9	RI/+5V/+12 selectable
10	NC

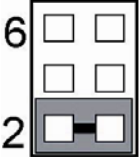
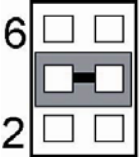
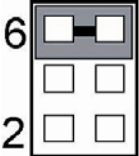
**COM4**

 All COM port is selectable for RI, +5V or +12V. For more information, please refer to our “COM RI and Voltage Selection”.

2-6. COM1 RI & VOLTAGE SELECTION

JP8 : COM1 RI & Voltage Selection

The selections are as follows:

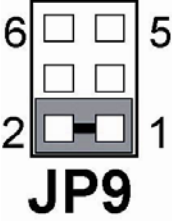
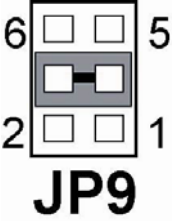
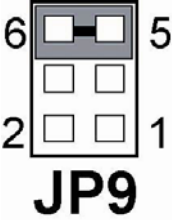
SELECTION	JUMPER SETTINGS	JUMPER ILLUSTRATION
RI	1-2	 JP8
VCC12	3-4	 JP8
VCC	5-6	 JP8

***Manufacturing Default – RI.

2-7. COM2 RI & VOLTAGE SELECTION

JP9 : COM2 RI & Voltage Selection

The selections are as follows:

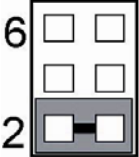
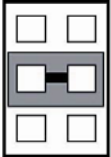
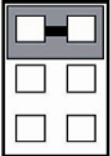
SELECTION	JUMPER SETTINGS	JUMPER ILLUSTRATION
RI	1-2	 JP9
VCC12	3-4	 JP9
VCC	5-6	 JP9

***Manufacturing Default – RI.

2-8. COM3 RI & VOLTAGE SELECTION

JP11 : COM3 RI & Voltage Selection

The selections are as follows:

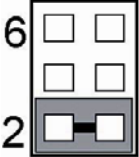
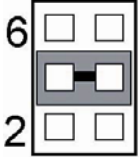
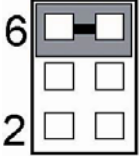
SELECTION	JUMPER SETTINGS	JUMPER ILLUSTRATION
RI	1-2	 JP11
VCC12	3-4	 JP11
VCC	5-6	 JP11

***Manufacturing Default – RI.

2-9. COM4 RI & VOLTAGE SELECTION

JP12 : COM4 RI & Voltage Selection

The selections are as follows:

SELECTION	JUMPER SETTINGS	JUMPER ILLUSTRATION
RI	1-2	 JP12
VCC12	3-4	 JP12
VCC	5-6	 JP12

***Original Manufacturing Default – RI.

2-10. RS232/422/485 (COM4) SELECTION

JP10 : RS-232/422/485 (COM4) Selection

This connector is used to set the COM4 function.

The jumper settings are as follows :

SELECTION	JUMPER SETTINGS	JUMPER ILLUSTRATION
RS-232	NC	JP10
RS-422	1-2, 3-4, 9-10	JP10
RS-485	1-2, 5-6, 7-8	JP10

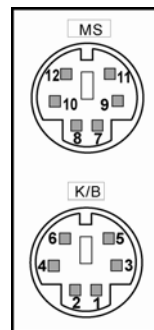
*** Manufactory default --- RS-232.

2-11. KEYBOARD AND PS/2 MOUSE CONNECTOR

KB-MS1 : PC/AT Keyboard and PS/2 Mouse Connector

The pin assignments are as follows :

PIN	ASSIGNMENT	PIN	ASSIGNMENT
	KB		MS
1	KB DATA	7	MS DATA
2	NC	8	NC
3	GND	9	GND
4	5VSB	10	5VSB
5	KB CLK	11	MS CLK
6	NC	12	NC



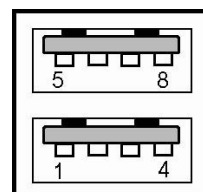
KB-MS1

2-12. UNIVERSAL SERIAL BUS CONNECTOR

JUSB1 : Two USB Ports Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	USBV0
2	USB0-
3	USB0+
4	GND
5	USBV1
6	USB1-
7	USB1+
8	GND

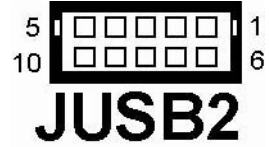


JUSB1

JUSB2 : Two USB Ports Connector

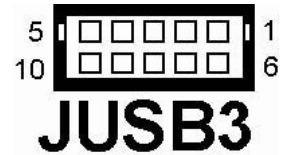
The pin assignment is as follows :

PIN	ASSIGNMENT
1	USBV2
2	USB2-
3	USB2+
4	GND
5	GND
6	USBV3
7	USB3-
8	USB3+
9	GND
10	GND

**JUSB3 : One USB Port Connector**

The pin assignment is as follows :

PIN	ASSIGNMENT
1	USBV4
2	USB4-
3	USB4+
4	GND
5	GND
6	NC
7	NC
8	NC
9	NC
10	NC

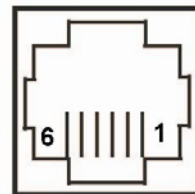


2-13. CASH DRAWER CONNECTOR

DRW1 : Cash Drawer Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	GND
2	Drawer Open
3	Drawer Sense
4	+12V
5	NC
6	GND



DRW1

2-14. CASH DRAWER POWER SELECTION

JCASH1 : Cash Drawer Power Selection

The jumper settings are as follows :

SELECTION	JUMPER SETTINGS	JUMPER ILLUSTRATION
+12V (default)	2-3	 JCASH1
NC	NC	 JCASH1

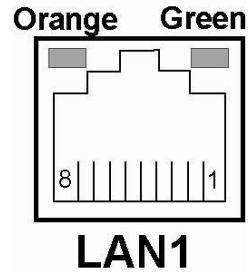
*** Manufactory default --- +12V.

2-15. LAN CONNECTOR

LAN1 : LAN Connector

The pin assignments are as follows:

PIN	ASSIGNMENT
1	TX+
2	TX-
3	RX+
4	ISOLATED GND
5	ISOLATED GND
6	RX-
7	ISOLATED GND
8	ISOLATED GND

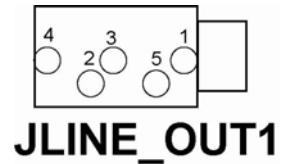


2-16. AUDIO CONNECTOR

JLINE_OUT1 : Audio Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	GND
2	LOUTL
3	NC
4	LOUTR
5	NC

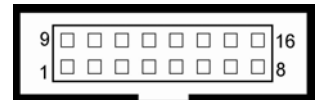


2-17. VGA CONNECTOR

VGA1 : VGA Connector

The pin assignments are as follows:

PIN	ASSIGNMENT
1	RED
2	GREEN
3	BLUE
4	NC
5	GND
6	GND
7	GND
8	GND
9	+5V
10	GND
11	NC
12	DDCA DATA
13	HSYNC
14	VSYNC
15	DDCA CLK
16	NC



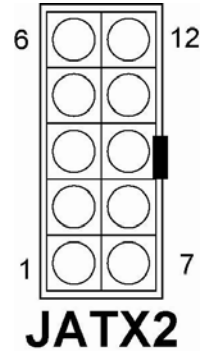
VGA1

2-18. POWER CONNECTOR

JATX 2: Power Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	GND
2	+5V
3	+5V
4	GND
5	GND
6	+12V
7	+24V (Reserved)
8	5VSB
9	+5V
10	GND
11	PS_ON
12	+12V

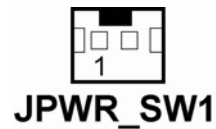


2-19. POWER SWITCH CONNECTOR

JPWR_SW1 : Power Switch Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	5VSB
2	PWB_SIOJ

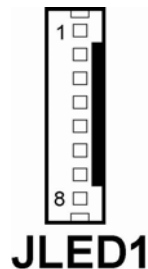


2-20. POWER/HDD/LAN LED CONNECTOR

JLED1 : Power/HDD/LAN LED Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	PWR_VCC
2	GND
3	HDD_VCC
4	HDD_LEDJ
5	LAN_ACTLEDJ
6	LAN_LILEDJ
7	3.3VSB
8	LAN_SPLEDJ

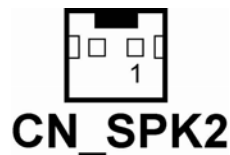


2-21. EXTERNAL SPEAKER CONNECTOR

CN_SPK2 : External Speaker Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	SPK_OUT
2	GND



2-22. INVERTER CONNECTOR

JP6 : Inverter Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	+12V
2	GND
3	+5V
4	GND
5	LVDS_BKLTEN
6	NC



2-23. MSR/ CARD READER CONNECTOR

CN_MSR1 : MSR/ Card Reader Connector

The pin assignment is as follows :

PIN	ASSIGNMENT
1	KB_CLK (Output)
2	KB_CLK_C (Input)
3	KB_DATA_C (Input)
4	KB_DATA (Output)
5	+5V
6	GND

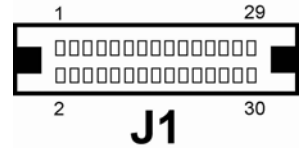


2-24. LVDS CONNECTOR

J1 : LVDS Connector

The pin assignments are as follows :

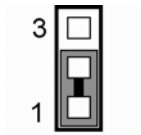
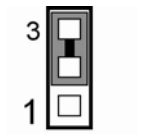
PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	LVDS_VCC	2	GND
3	ZCM	4	ZCP
5	GND	6	Z2M
7	Z2P	8	GND
9	Z1M	10	Z1P
11	Z3P	12	Z3M
13	Z0P	14	Z0M
15	GND	16	YCP
17	YCM	18	GND
19	Y2P	20	Y2M
21	GND	22	Y1P
23	Y1M	24	GND
25	Y0P	26	Y0M
27	Y3P	28	Y3M
29	LVDS_VCC	30	LVDS_VCC



2-25. LVDS PANEL 3.3V/5V VOLTAGE SELECTION

JP4 : LVDS Panel 3.3V/5V Voltage Selection

The selections are as follows:

SELECTION	JUMPER SETTING (pin closed)	JUMPER ILLUSTRATION
5V	1-2	 JP4
3.3V (default)	2-3	 JP4

***Manufacturing Default is set as 3.3V.

2-26. HARD DISK DRIVE CONNECTOR

IDE1 : Hard Disk Drive Connector

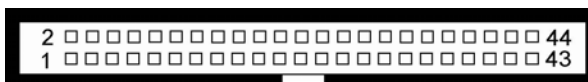
The pin assignments are as follows:

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	IDERSTJ	2	GND
3	PDD7	4	PDD8
5	PDD6	6	PDD9
7	PDD5	8	PDD10
9	PDD4	10	PDD11
11	PDD3	12	PDD12
13	PDD2	14	PDD13
15	PDD1	16	PDD14
17	PDD0	18	PDD15
19	GND	20	NC
21	PDREQ	22	GND
23	PDIOWJ	24	GND
25	PDIORJ	26	GND
27	PDIORDY	28	PULL LOW
29	PDDACKJ	30	GND
31	IRQ14	32	NC
33	PDA1	34	PD66_DETECT
35	PDA0	36	PDA2
37	PDCSJ1	38	PDCSJ3
39	IDEACTPJ	40	GND
41	+5V	42	+5V
43	GND	44	GND



IDE2-1 : Hard Disk Drive Connector

The pin assignments are as follows:

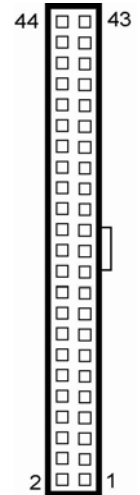
**IDE2-1**

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	IDERSTJ	2	GND
3	SDD7	4	SDD8
5	SDD6	6	SDD9
7	SDD5	8	SDD10
9	SDD4	10	SDD11
11	SDD3	12	SDD12
13	SDD2	14	SDD13
15	SDD1	16	SDD14
17	SDD0	18	SDD15
19	GND	20	NC
21	SDREQ	22	GND
23	SDIOWJ	24	GND
25	SDIORJ	26	GND
27	SDIORDY	28	PULL LOW
29	SDDACKJ	30	GND
31	IRQ15	32	NC
33	SDA1	34	SD66_DETECT
35	SDA0	36	SDA2
37	SDCSJ1	38	SDCSJ3
39	IDEACTSJ	40	GND
41	+5V	42	+5V
43	GND	44	GND

IDE2-2 : Hard Disk Drive Connector for CF Card

The pin assignments are as follows:

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	IDERSTJ	2	GND
3	SDD7	4	SDD8
5	SDD6	6	SDD9
7	SDD5	8	SDD10
9	SDD4	10	SDD11
11	SDD3	12	SDD12
13	SDD2	14	SDD13
15	SDD1	16	SDD14
17	SDD0	18	SDD15
19	GND	20	NC
21	SDREQ	22	GND
23	SDIOWJ	24	GND
25	SDIORJ	26	GND
27	SDIORDY	28	PULL LOW
29	SDDACKJ	30	GND
31	IRQ15	32	NC
33	SDA1	34	SD66_DETECT
35	SDA0	36	SDA2
37	SDCSJ1	38	SDCSJ3
39	IDEACTSJ	40	GND
41	+5V	42	+5V
43	GND	44	GND

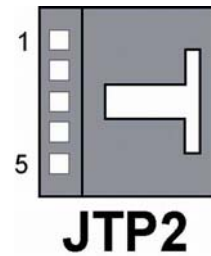
**IDE2-2**

2-27. TOUCH PANEL CONNECTOR

JTP2 : Touch Panel Connector

The pin assignments are as follows :

PIN	ASSIGNMENT
1	LR (Low Right)
2	LL (Low Left)
3	Probe
4	UR (Up Right)
5	UL (Up Left)



2-28. FAN CONNECTOR

JFAN_CPU1/ JFAN_NB1 : Fan Connector

The pin assignment is as follows :

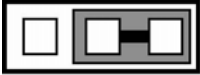
PIN	ASSIGNMENT
1	GND
2	Fan Detect
3	+5V
4	PWM Fan Control



2-29. CLEAR CMOS DATA SELECTION

JP7: Clear CMOS Data Selection

The selections are as follows:

FUNCTION	JUMPER SETTING (pin closed)	JUMPER ILLUSTRATION
CLEAR CMOS	2-3	 1 JP7
NORMAL	1-2	 1 JP7

*** Manufacturing Default – Normal.



To clear CMOS data, user must power-off the computer and set the jumper to “Clear CMOS” as illustrated above. After five to six seconds, set the jumper back to “Normal” and power-on the computer.

2-30. PS_ON FUNCTION SELECTION

JP14 : PS_ON Function Selection

The selections are as follows :

FUNCTION	JUMPER SETTING (pin closed)	JUMPER ILLUSTRATION
Power Switch Control (default)	1-2	 1 JP14
PC Force to Start	2-3	 1 JP14

*** Manufacturing Default is set as Power Switch Control.

2-31. CPU FSB (FRONT SIDE BUS) SELECTION

JP1 : CPU FSB Selection

The selections are as follows :

FUNCTION	JUMPER SETTING (pin closed)	JUMPER ILLUSTRATION
Support FSB = 400 MHZ (default)	1-2	 JP1
Reserved	2-3	 JP1

*** Manufacturing Default is set as Support FSB = 400MHz..

2-32. CPU HOST CLOCK SELECTION

JP2 : CPU Host Clock Selection

The selections are as follows :

FUNCTION	JUMPER SETTING (pin closed)	JUMPER ILLUSTRATION
Host Clock = 100 MHz (default)	1-2	

*** Manufacturing Default is set as Host Clock = 100MHz..

SOFTWARE UTILITIES

CHAPTER

3

This chapter comprises the detailed information of VGA driver, LAN driver, and Flash BIOS update. It also describes how to install the watchdog timer configuration.

Section includes:

- VGA Driver Utility
- Flash BIOS Update
- LAN Driver Utility
- Intel® Chipset Software Installation Utility
- USB2.0 Chipset Software Installation Utility

3-1. INTRODUCTION

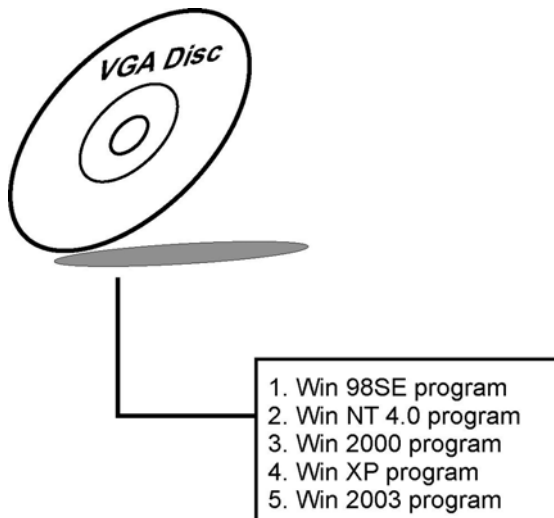
Enclosed with our PS-6505 package is our driver utility, which may comes in a form of a CD ROM disc or floppy diskettes. For CD ROM disc user, you will only need some of the files contained in the CD ROM disc, please kindly refer to the following chart:

Filename (Assume that CD ROM drive is D:)	Purpose
D:\Driver\VGA	Intel® 855GME For VGA driver installation
D:\Driver\FLASH	For BIOS update utility
D:\Driver\LAN	For LAN Driver installation
D:\Driver\Sound	Realtek ALC202 AC97 For Sound driver installation
D:\Driver\UTILITY	Intel® Chipset Software Installation Utility For Win 98SE, 2000, XP
D:\Driver\USB 2.0	USB 2.0 Software Installation Utility For Win 98SE, 2000, ME, XP
D:\Driver\Touch	For Win 98SE, 2000, ME, XP, Linux
D:\Driver\Wireless	For Win 98SE, 2000, ME, XP, Linux

🔔 User should remember to install the Utility right after the OS is fully installed.

3-2. VGA DRIVER UTILITY

The VGA interface embedded with our PS-6505 can support a wide range of display. You can display CRT, LVDS simultaneously with the same mode.



3-2-1. Installation of VGA Driver:

To install the VGA Driver, simply follow the following steps:

1. Please insert the Utility Disk into Floppy Disk Drive A/B or CD ROM drive.
2. Under Windows 9X/NT4.0/2000/XP system, go to the directory where VGA driver is located.
3. Click **Setup.exe** file for VGA driver installation.
4. Follow the instructions on the screen to complete the installation.
5. Once installation is completed, shut down the system and restart it in order to complete the changes.

3-3. FLASH BIOS UPDATE

3-3-1. System BIOS Update:

Users of PS-6505 can use the program “Awdflash.exe” contained in the Utility Disk for system BIOS and VGA BIOS update.

3-3-2. To update VGA BIOS for LCD Flat Panel Display:

As a user of PS-6505, you have to update the VGA BIOS for the specific LCD flat panel you are going to use. For this purpose, you need two files. One is the “Awdflash.exe” file and the other one is the VGA BIOS for ATI Rage Mobility M6 file for LCD panel display. Both files must be provided by the vendor or manufacturer. When you get these two files ready, follow the following steps for updating your VGA BIOS:

1. Install “Awdflash.exe” from Utility Disk to Drive C.
2. Insert the VGA BIOS file you have obtained from the vendor.
Type the path of Awdflash.exe and execute the VGA BIOS update with file H15bxxxx.bin
3. C:\UTIL\AWDFLASH>AWDFLASH H15bxxxx.bin
4. The screen will display as the table below:

FLASH MEMORY WRITER v7.XX (C) Award Software 2001 All Rights Reserved
Flash Type – SST 49LF004A /3.3V File Name to Program: H20bxxxx.bin Checksum: XXXXX
Error Message: Do You Want To Save BIOS (Y/N)

If you want to save the original BIOS, enter "Y" and press < Enter >. If you choose "N", the following table will appear on screen.

FLASH MEMORY WRITER v7.XX (C) Award Software 2001 All Rights Reserved
Flash Type – SST 49LF004A /3.3V File Name to Program: H20bxxxx.bin Checksum: XXXXX
Error Message : Are You Sure To Program (Y/N)

Select "Y", and the BIOS will be renewed. When you are refreshing the BIOS, do not turn off or reset the system, or you will damage the BIOS. After you have completed all the programming, the screen displays the table below:

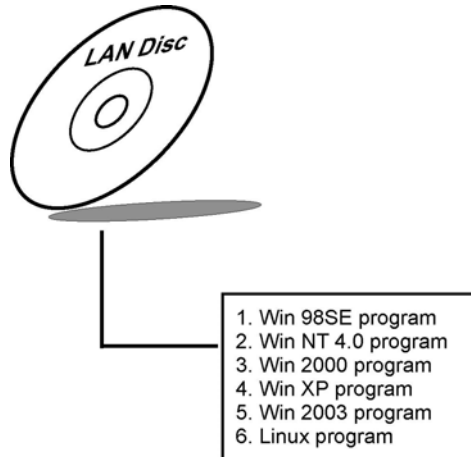
FLASH MEMORY WRITER v7.XX (C) Award Software 2001 All Rights Reserved
Flash Type – SST 49LF004A /3.3V File Name to Program: H20bxxxx.bin Checksum: XXXXX Reset System or Power off to accomplish update process!
F1: Reset F10: Exit

Please reset or power off the system, and then the Flash BIOS is fully implemented.

3-4. LAN DRIVER UTILITY

3-4-1. Introduction

PS-6505 is enhanced with LAN function that can support various network adapters. Installation programs for LAN driver is listed as follows:

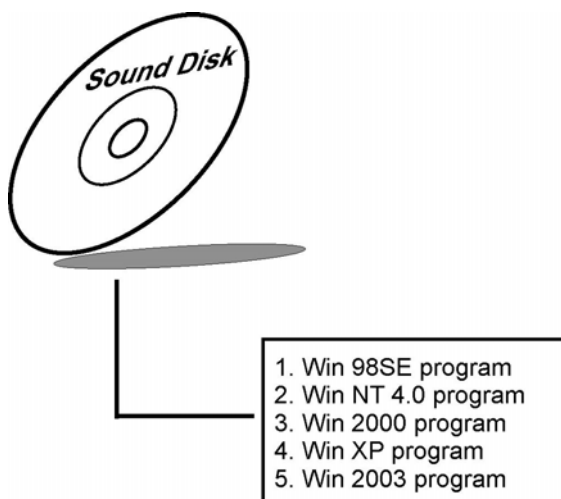


For more details on Installation procedure, please refer to Readme.txt file found on LAN DRIVER UTILITY.

3-5. SOUND DRIVER UTILITY

3-5-1. Introduction

The sound function enhanced in this system is fully compatible with Windows 98SE, Windows NT 4.0, Windows 2000, Windows XP and Windows 2003. Below, you will find the content of the Sound driver :



3-5-2. Installation Procedure

To install, kindly refer to the readme.txt file on the Driver Disc (:\Sound\Realtek\Readme.txt).

3-6. INTEL® CHIPSET SOFTWARE INSTALLATION UTILITY

3-6-1. Introduction

The Intel® Chipset Software Installation Utility installs to the target system the Windows* INF files that outline to the operating system how the chipset components will be configured. This is needed for the proper functioning of the following features:

- Core PCI and ISAPNP Services
- AGP Support
- IDE/ATA33/ATA66/ATA100 Storage Support
- USB Support
- Identification of Intel® Chipset Components in Device Manager

3-6-2. Installation of Utility for Windows 98SE/2000/2003/XP

The Utility Pack is to be installed only for Windows 98SE, Windows 2000, Windows 2003 and XP program.

It should be installed right after the OS installation, kindly follow the following steps:

1. Please insert the Utility Disk into Floppy Disk Drive A/B or CD ROM drive.
2. Under Windows 98SE/ME/2000/XP system, go to the directory where Utility Disc is located.
3. Click **Setup.exe** file for utility installation.
4. Follow the instructions on the screen to complete the installation.
5. Once installation is completed, shut down the system and restart it in order to complete the changes.

3-7. USB2.0 SOFTWARE INSTALLATION UTILITY

3-7-1. Installation of Utility for Windows 98SE/ 2000/XP/2003

Intel USB 2.0 Enhanced Host Controller driver can only be used on Windows 98SE, Windows 2000, Windows 2003 and Windows XP on Intel Desktop boards. It should be installed right after the OS installation, kindly follow the following steps:

1. Please insert the Utility Disk into Floppy Disk Drive A/B or CD ROM drive.
2. Under Windows 98SE, 2000, 2003 and XP system, go to the directory where Utility Disc is located.
3. Start the “System” wizard in control panel. (Click Start/Settings/Control Panel).
4. Select “Hardware” and click “Device Manager ” button.
5. Double Click “USB Root Hub”.
6. Select “Driver”.
7. Click “Install” to install the driver.
8. Follow the instructions on the screen to complete the installation.
9. Click “Finish” after the driver installation is complete.

3-8. TOUCHSCREEN DRIVER UTILITY

The touchscreen driver utility is to be installed only for Windows 98SE, Windows 2000, Windows 2003, Windows XP, Windows NT 4.0 and Linux program.

It should be installed right after the OS installation, kindly follow the following steps:

1. Please insert the Utility Disk into Floppy Disk Drive A/B or CD ROM drive.
2. Under Windows 98SE/2000/XP/2003/NT4.0/Linux system, go to the directory where Utility Disc is located.
3. Click **Setup.exe** file for utility installation.
4. Follow the instructions on the screen to complete the installation.
5. Once installation is completed, shut down the system and restart it in order to complete the changes.

3-9. WIRELESS DRIVER UTILITY (OPTIONAL)

The wireless driver utility is to be installed only for Windows 98SE, Windows 2000, Windows 2003, Windows XP, Windows NT 4.0 and Linux program.

It should be installed right after the OS installation, kindly follow the following steps:

1. Please insert the Utility Disk into Floppy Disk Drive A/B or CD ROM drive.
2. Under Windows 98SE/2000/XP/2003/NT4.0/Linux system, go to the directory where Utility Disc is located.
3. Click **Setup.exe** file for utility installation.
4. Follow the instructions on the screen to complete the installation.
5. Once installation is completed, shut down the system and restart it in order to complete the changes.

AWARD BIOS SETUP

CHAPTER

4

This chapter shows how to set up the Award BIOS.

Section includes:

- Introduction
- Entering Setup
- The Standard CMOS Features
- The Advanced BIOS Features
- The Advanced Chipset Features
- Integrated Peripherals
- Power Management Setup
- PNP/PCI Configuration
- PC Health Status
- Frequency Control
- Load Fail-Safe Defaults
- Load Optimized Defaults
- Password Setting
- Save and Exit Setup

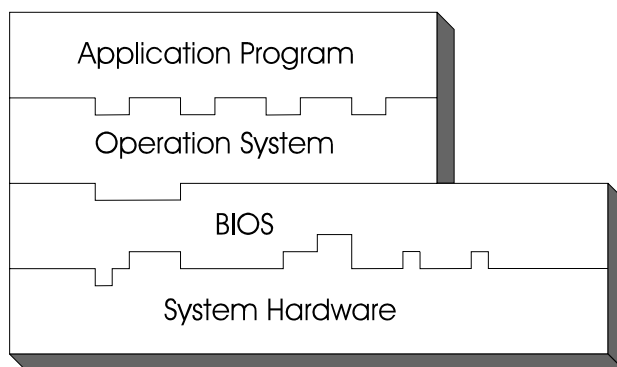
4-1. INTRODUCTION

This chapter will show you the function of the BIOS in managing the features of your system. The PS-6505 15" POS Terminal is equipped with the BIOS for system chipset from Award Software Inc. This page briefly explains the function of the BIOS in managing the special features of your system. The following pages describe how to use the BIOS for system chipset Setup menu.

Your application programs (such as word processing, spreadsheets, and games) rely on an operating system such as DOS or OS/2 to manage such things as keyboard, monitor, disk drives, and memory.

The operating system relies on the BIOS (Basic Input and Output system), a program stored on a ROM (Read-only Memory) chip, to initialize and configure your computer's hardware. As the interface between the hardware and the operating system, the BIOS enables you to make basic changes to your system's hardware without having to write a new operating system.

The following diagram illustrates the interlocking relationships between the system hardware, BIOS, operating system, and application program:



4-2. ENTERING SETUP

When the system is powered on, the BIOS will enter the Power-On Self Test (POST) routines and the following message will appear on the lower screen:

PRESS <DEL> TO ENTER SETUP, ESC TO SKIP MEMORY TEST

As long as this message is presented on the screen you may press the <Del> key (the one that shares the decimal point at the bottom of the number keypad) to access the Setup program. In a moment, the main menu of the Award SETUP program will appear on the screen:

Phoenix – Award BIOS CMOS Setup Utility

▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Advanced Chipset Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations ▶ PC Health Status	▶ Frequency Control - Load Fail-Safe Defaults - Load Optimized Defaults - Set Supervisor Password - Set User Password - Save & Exit Setup - Exit Without Saving
Esc : Quit F10 : Save & Exit Setup	↑↓→← : Select Item
Time, Date, Hard Disk Type	

Setup program initial screen

You may press the arrow keys of up/down to move the cursor to highlight the individual menu items. As you highlight each item, a brief description of the highlighted selection will appear at the bottom of the screen.

4-3. THE STANDARD CMOS FEATURES

Highlight the "STANDARD CMOS FEATURES" and press the <ENTER> key and the screen will display the following table:

Phoenix – Award CMOS Setup Utility
Standard CMOS Features

Date (mm:dd:yy)	Mon , Jan 13 2003	Item Help
Time (hh:mm:ss)	16 : 21 : 43	
▶ IDE Primary Master	[None]	Menu Level ▶
▶ IDE Primary Slave	[None]	Change the day, month, year and century.
▶ IDE Secondary Master	[None]	
▶ IDE Secondary Slave	[None]	
Video	[EGA/VGA]	
Halt On	[All, But Keyboard]	
Base Memory	640K	
Extended Memory	227328K	
Total Memory	228352K	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

CMOS Setup screen

In the above Setup Menu, use the arrow keys to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

Date:

< Month >, < Date > and <Year >. Ranges for each value are in the CMOS Setup Screen, and the week-day will be skipped automatically.

Time:

< Hour >, < Minute >, and < Second >. Use 24 hour clock format, i.e., for PM numbers, add 12 to the hour. For example: 4: 30 P.M. You should enter the time as 16:30:00.

IDE Primary Master / Slave:**IDE Secondary Master / Slave:**

The BIOS can automatically detect the specifications and optimal operating mode of almost all IDE hard drives. When you select "AUTO" for a hard drive, the BIOS will detect its specifications during POST every time system boots.

If you do not want to select "AUTO", select drive type will be the next choice:

1. Match the specifications of your installed IDE hard drive(s) with the preprogrammed values for hard drive types 1 through 45.
2. Select USER and enter values into each drive parameter field.
3. Use the IDE HDD AUTO DETECTION function in Setup.

Here is a brief explanation of drive specifications:

Type: The BIOS contains a table of pre-defined drive types. Each defined drive type has a specified number of cylinders, number of heads, write precompensation factor, landing zone, and number of sectors. Drives whose specifications do not accommodate any predefined type are classified as type USER.

- Size: Disk drive capacity (approximate). Note that this size is usually greater than the size of a formatted disk given by a disk-checking program.
- Cyls: number of cylinders.
- Head: number of heads.
- Precomp: write precompensation cylinders.
- Landz: landing zone.
- Sector: number of sectors.
- Mode: Auto, Normal, Large or LBA.

Auto: The BIOS automatically determines the optimal mode.

- Normal: Maximum number of cylinders, heads, sectors supported are 1024, 16 and 63.
- Large: For drives that do not support LBA and have more than 1024 cylinders.
- LBA (Logical Block Addressing): During drive accesses, the

IDE controller transforms the data address described by sector, head and cylinder number into a physical block address, significantly improving data transfer rates. For drives greater than 1024 cylinders.

VIDEO:

In this category you could select the type of video adapter used for primary system monitor. Although secondary monitor is supported, you do not have to select it in Setup. Available Options are as follows:

EGA/VGA	Enhanced Graphics Adapter/Video Graphics Array. For EGA, VGA, SEGA, SVGA or PGA monitor adapters.
CGA 40	Color Graphics Adapter, power up in 40 column mode.
CGA 80	Color Graphics Adapter, power up in 80 column mode.
MONO	Monochrome adapter, includes high resolution monochrome adapters.

HALT ON:

In this category users could decide the solutions if the computer should stop booting or not if any errors are detected. Available options are “All errors”, “No errors”, “All, But keyboard”, “All, But Diskette”, and “All But Disk/Key”.

BASE MEMORY:

Displays the amount of conventional memory detected during boot up.

EXTENDED MEMORY:

Displays the amount of extended memory detected during boot up.

TOTAL MEMORY:

Displays the total memory available in the system.

4-4. THE ADVANCED BIOS FEATURES

Choose the “ADVANCED BIOS FEATURES” in the main menu, and you will see a screen like the one listed below.

Phoenix – Award CMOS Setup Utility
Advanced BIOS Features

Virus Warning	[Disabled]	Item Help
CPUL1 & L2 Cache	[Enabled]	Menu Level ► Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep
Quick Power On Self Test	[Enabled]	
First Boot Device	[HDD-0]	
Second Boot Device	[CDROM]	
Boot Up NumLock Status	[On]	
Typematic Rate Setting	[Disabled]	
X Typematic Rate (Chars/Sec)	6	
X Typematic Delay (Msec)	250	
Security Option	[Setup]	
OS Select for DRAM > 64MB	[Non-OS2]	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

BIOS Features Setup Screen

The “BIOS FEATURES SETUP” allow you to configure your system for basic operation. The user can select the system’s default speed, boot-up sequence, keyboard operation, shadowing and security.

A brief introduction of each setting is given below.

VIRUS WARNING :

This item allows you to choose the Virus Warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempts to write data into this area, BIOS will pop up a warning message on screen and alarm sounds will be sent out.

CPU L1 & L2 CACHE:

This item allows you to enable L1 & L2 cache

QUICK POWER ON SELF-TEST:

This item allows you to speed up Power On Self Test (POST) after power-up the computer. When enabled, the BIOS will shorten or skip checking some items during POST.

FIRST/SECOND BOOT DEVICE:

The BIOS attempts to load the operation system from the device selected in this sequence.

BOOT UP NUMLOCK STATUS:

Select power on state for NumLock.

TYPEMATIC RATE SETTING:

Enable this item if you wish to be able to configure the characteristics of your keyboard. Typematic refers to the way in which characters are entered repeatedly if a key is held down. For example, if you press and hold down the "A" key, the letter "a" will repeatedly appear on your screen until you release the key. When enabled, the typematic rate and typematic delay can be selected.

TYPEMATIC RATE (CHARS/SEC):

This item defines the repeating rate of a key stroke when you hold the key down.

TYPEMATIC DELAY (MSEC):

The item sets the delay time after the key is held down before it begins to repeat the keystroke.

SECURITY OPTION:

You could prevent someone from using this PC or entering the Setup page if he doesn't have the correct password by configure the security option in this category.

System	The PC will not boot up, and user can not enter the Setup page if user doesn't input the correct password in the pop up window.
Setup	The PC will boot up but user can't enter the Setup page if user doesn't input the correct password in the pop up window.

 To disable security, select PASSWORD SETTING at Main Menu and then you will be asked to enter password. Do not type anything and just press <Enter>, it will disable security. Once the security is disabled, the system will boot and you can enter Setup freely.

OS SELECT FOR DRAM > 64MB:

Select the operating system that is running with greater than 64MB of RAM on the system.

4-5. ADVANCED CHIPSET FEATURES

Choose the "ADVANCED CHIPSET FEATURES" from the main menu, and you will see a screen like the one listed below.

Phoenix – AwardBIOS CMOS Setup Utility Advanced Chipset Features		
DRAM Timing Selectable	[By SPD]	Item Help
X CAS Latency Time	2.5	Menu Level ▶
X Active to Precharge Delay	7	
X DRAM RAS# to CAS# Delay	3	
X DRAM RAS# Precharge	3	
DRAM Data Integrity Mode	Non-ECC	
System BIOS Cacheable	[Enabled]	
Video BIOS Cacheable	[Disabled]	
Memory Hole at 15M-16M	[Disabled]	
Delayed Transaction	[Enabled]	
AGP Aperture Size (MB)	[64]	
** On-Chip VGA Setting **		
On-Chip VGA	[Enabled]	
On-Chip Frame Buffer Size	[32MB]	
Boot Display	[CRT+LFP]	
Panel Type	[1024x768 18-bits]	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Chipset Features Setup Screen

This parameter allows you to configure the system based on the specific features of the installed chipset. The chipset manages bus speed and access to system memory resources, such as DRAM and the external cache.

It also coordinates communications between conventional ISA bus and the PCI bus. It must be stated that these items should never need to be altered. The default settings have been chosen because they provide the best operating conditions for the system. The only time you might consider making

any changes would be if you discovered that data was being lost while using your system.

DRAM TIMING BY SELECTABLE:

This allows you to select the DRAM timing

CAS LATENCY TIME:

When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing

ACTIVE TO PRECHARGE DELAY:

This item controls the number of DRAM clocks for TRAS

DRAM RAS# TO CAS# DELAY:

In this field you could decide the timing of delay between CAS and RAS strobe signals, used when DRAM is written to, read from, or refreshed. The system will have better performance if smaller value is inputted; the system will be more stable if greater value is inputted. You will only need to change it when synchronous DRAM is installed.

DRAM RAS# PRECHARGE:

If an insufficient number of cycles are allowed for the RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete and the DRAM may fail to retain data. The system will have better performance if smaller value is inputted; the system will be more stable if greater value is inputted. You will only need to change it when synchronous DRAM is installed.

DRAM DATA INTEGRITY MODE:

Select Parity or ECC (error-correcting code), according to the type of installed DRAM

SYSTEM BIOS CACHEABLE:

It allows the system to cache the BIOS ROM at F0000h-FFFFFh if you select "Enabled", and the system will have better performance. However, if any program writes to this memory area may result in system error.

VIDEO BIOS CACHEABLE:

It allows the system to cache the video BIOS if you select "Enabled", and the system will have better performance. However, if any program writes to this memory area may result in system error.

MEMORY HOLE AT 15M-16M:

You can reserve this area of system memory for ISA adapter ROM. When this area is reserved, it cannot be cached. The user information of peripherals that need to use this area of system memory usually discusses their memory requirements

DELAYED TRANSACTION:

The chipset has an embedded 32-bit posted write buffer to support delay transactions cycles. Select Enabled to support compliance with PCI specification version 2.1.

AGP APERTURE SIZE:

This field determines the effective size of the Graphic Aperture used for a particular GMCH configuration. It can be updated by the GMCH-specific BIOS configuration sequence before the PCI standard bus enumeration sequence takes place. If it is not updated then a default value will select an aperture of maximum size.

ON-CHIP VGA:

By default, the On-Chip VGA or chipset-integrated VGA is “Enabled”

ON-CHIP FRAME BUFFER SIZE: (depend on chipset)

The On-Chip Frame Buffer Size can be set as 1MB or 8MB. This memory is shared with the system memory.

BOOT DISPLAY: (depend on chipset)

Boot Display determines the display output device where the system boots. The options are CRT and LVDS.

PANEL TYPE: (depend on chipset)

This field shows user the LVDS panel resolution. The available choice is 1024x768 18bits.

4-6. INTEGRATED PERIPHERALS

Choose “INTEGRATED PERIPHERALS” from the main setup menu, and you will see a screen like the one listed below.

Phoenix – AwardBIOS CMOS Setup Utility		
Integrated Peripherals		
▶ OnChip IDE Device	[Press Enter]	Item Help
▶ Onboard Device	[Press Enter]	Menu Level ▶
▶ SuperIO Device	[Press Enter]	
Onboard Serial Port 3	[3E8]	
Serial Port 3 Use IRQ	[IRQ10]	
Onboard Serial Port 4	[2E8]	
Serial Port 4 Use IRQ	[IRQ11]	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Integrated Peripherals Setup Screen

By moving the cursor to the desired selection and by pressing the <F1> key, the all options for the desired selection will be displayed for choice.

-  If bios setup menu item supports USB device boot, it will cause Win9x detects the same storages twice when the system is rebooted, and USB HDD will fail.
Note: this cause just happen under Win9x, the phenomenon is a limitation.

ONCHIP IDE DEVICE:

You could expand the whole menu by pressing <ENTER>, and you will see a screen like the one listed below.

Phoenix – AwardBIOS CMOS Setup Utility
OnChip IDE Device

On-Chip Primary PCI IDE	[Enabled]	Item Help
IDE Primary Master PIO	[Auto]	Menu Level ▶▶
IDE Primary Slave PIO	[Auto]	
IDE Primary Master UDMA	[Auto]	
IDE Primary Slave UDMA	[Auto]	
On-Chip Secondary PCI IDE	[Enabled]	
IDE Secondary Master PIO	[Auto]	
IDE Secondary Slave PIO	[Auto]	
IDE Secondary Master UDMA	[Auto]	
IDE Secondary Slave UDMA	[Auto]	
IDE HDD Block Mode	[Enabled]	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Table 1 – VIA On-Chip IDE Device sub menu

Descriptions of each item in the above chart are listed below:

1. On-Chip Primary PCI IDE

The integrated peripheral controller contains an IDE interface which supports two IDE channels. Select Enabled to activate each channel separately.

2. IDE Primary Master/Slave PIO

IDE Secondary Master/Slave PIO

The four IDE PIO fields allow you to set up PIO mode for each IDE devices supported by the onboard IDE interface. Greater value will provide better performance. Auto mode will determine the best mode for each device automatically.

3. IDE Primary Master/Slave UDMA

IDE Secondary Master/Slave UDMA

To support Ultra DMA, both of the following items must be supported.

a. Your IDE hard drive must support Ultra DMA.

b. DMA driver must be included in your OS. (Windows 95 must have OSR2 or a third-party IDE bus master driver)

If your system supports both of the above items, then please select Auto and the system will support it automatically.

4. OnChip Secondary PCI IDE

Enable the secondary IDE channel

5. IDE HDD Block Mode

Block mode is also called block transfer, multiple commands, or multiple sector read/write. If your IDE hard drive supports block mode (most new drives do), select Enabled for automatic detection of the optimal number of block read/writes per sector the drive can support

ONBOARD DEVICE:

You could expand the whole items by pressing <ENTER>, and you will see a screen like the one listed below:

Phoenix – AwardBIOS CMOS Setup Utility
Onboard Device

USB Controller	[Enabled]	Item Help
USB 2.0 Controller	[Enabled]	
USB Keyboard Support	[Disabled]	Menu Level ►►
USB Mouse Support	[Disabled]	
AC97 Audio	[Auto]	
Onboard LAN	[Enabled]	
Init Display First	[Onboard/AGP]	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Table 2 –Onboard Device sub menu

Descriptions of each item above are listed below:

1. USB Controller

This should be enabled if your system has a USB installed on the system board and you want to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature

2. USB 2.0 Support

Enable the USB 2.0 controller

3. USB Keyboard Support
Select Enabled if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard.
4. USB Mouse Support
Select Enabled if your system contains a Universal Serial Bus (USB) controller and you have a USB Mouse
5. AC97 Audio
This item allows you to enable or disable the support of AC7 Audio.
6. Onboard LAN
Enable onboard LAN chip
7. Init Display First
This item allows you to decide if you want to display the screen from on-chip VGA or an additional PCI VGA card.

SUPER IO DEVICE:

You could expand the whole menu by pressing <ENTER>, and you will see a screen like the one listed below:

Phoenix – Award CMOS Setup Utility
SuperIO Device

Onboard Serial Port 1	[3F8/IRQ4]	Item Help
Onboard Serial Port 2	[2F8/IRQ3]	Menu Level ►
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[SPP]	
X EPP Mode Select	EPP1.7	
X ECP Mode Use DMA	3	
PWRON After PWR-Fail	[Off]	
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Table 3 – SuperIO Device sub menu

Descriptions of each item above are listed below:

1. Onboard Serial Port 1/2
Select an address and corresponding interrupt for the first and second serial ports
2. Onboard Parallel Port
This item allows you to determine access onboard parallel port controller with which I/O address.
3. Parallel Port Mode
Select an operating mode for the onboard parallel (printer) port. Select *Normal*, *Compatible*, or *SPP* unless you are certain your hardware and software both support one of the other available modes.
4. EPP Mode Select
Select EPP port type 1.7 or 1.9.
5. ECP Mode Use DMA
Select a DMA channel for the parallel port for use during ECP mode
6. PWRON After PWR-Fail
This item allows you to select if you want to power on the system after power failure. The choice: Off, On, Former-Sts

ONBOARD SERIAL PORT 3

ONBOARD SERIAL PORT 4:

Select a logical COM port name and matching address for the third and forth serial ports. Select an address and corresponding interrupt for third and forth serial port.

SERIAL PORT 3 USE IRQ

SERIAL PORT 4 USE IRQ:

The items set the IRQ address of the serial ports.

4-7. POWER MANAGEMENT SETUP

Choose “POWER MANAGEMENT SETUP” option on the main menu, and you will see a screen like the one listed below:

Phoenix – Award CMOS Setup Utility Power Management Setup		
ACPI Function	[Enabled]	Item Help
Power Management Option	[User Define]	Menu Level ►
Video Off Method	[DPMS]	
Video Off In Suspend	[Yes]	
MODEM Use IRQ	[3]	
Suspend Mode	[Disabled]	
Soft-Off by PWR-BTTN	[Instant-Off]	
Wake-Up by PCI card	[Enabled]	
Resume by Alarm	[Disabled]	
X Date (of Month) Alarm	0	
X Time (hh:mm:ss) Alarm	0 : 0: 0	
** Reload Global Timer Events **		
Primary IDE 0	[Disabled]	
Primary IDE 1	[Disabled]	
Secondary IDE 0	[Disabled]	
Secondary IDE 1	[Disabled]	
FDD, COM, LPT Port	[Disabled]	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Power Management Setup

The Power Management Setup allows the user to configure the system to the most effectively save energy while operating in a manner consistent with your own style of computer use.

ACPI FUNCTION:

This item allows the user to set the ACPI suspend mode.

POWER MANAGEMENT:

This item allows you to select the Power Management mode

VIDEO OFF METHOD:

This category determines the manner in which the monitor is blanked.

V/H SYNC+BLANK	This selection will cause the system to turn off the vertical & horizontal synchronization ports and writes blanks to video buffer.
BLANK SCREEN	This selection only writes blanks to video buffer.
DPMS	Initial display power management signaling.

MODEM USE IRQ:

This item enable you to name the interrupt request (IRQ) line assigned to the modem (if any) on your system. Activity of the selected IRQ always awakens the system.

SUSPEND MODE:

When enabled and after the set time of system inactivity, all devices except the CPU will be shut off.

SOFT-OFF BY PWRBTN:

Pressing the power button for more than 4 seconds forces the system to enter the Soft-Off state when the system has “hung”. The choices are Delay 4 Sec and Instant-Off.

WAKE-UP BY PCI CARD:

An input signal from PME on the PCI card awakens the system from a soft off state

RESUME BY ALARM:

When *Enabled*, your can set the date and time at which the RTC (real-time clock) alarm awakens the system from Suspend mode

RELOAD GLOBAL TIMER EVENT:

PM events are I/O events whose occurrence can prevent the system from entering a power saving mode or can awaken the system from such a mode. In effect, the system remains alert for anything, which occurs to a device which is configured as *Enabled*, even when the system is in a power down mode. (1) **Primary IDE 0** (2) **Primary IDE 1** (3) **Secondary IDE 0** (4) **Secondary IDE 1** (5) **FDD, COM, LPT Port**

4-8. PNP/PCI CONFIGURATION

Choose “PNP/PCI CONFIGURATION” from the main menu, a display will be shown on screen as below:

Phoenix – Award CMOS Setup Utility PnP/PCI Configurations		
Reset Configuration Data	[Disabled]	Item Help
Resources Controlled By X IRQ Resources	[Auto(ESCD)] Press Enter	Menu Level ►
PCI/VGA Palette Snoop	[Disabled]	Select Yes if you are using a Plug and Play capable operating system Select No if you need the BIOS to configure non-boot devices
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

PNP/PCI Configuration Setup Screen

The PNP/PCI Configuration Setup describes how to configure PCI bus system. PCI, also known as Personal Computer Interconnect, is a system, which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.

This section covers technical items, which is strongly recommended for experienced users only.

RESET CONFIGURATION DATA:

Normally, you leave this field Disabled. Select Enabled to reset Extended System Configuration Data (ESCD) when you exit Setup if you have installed a new add-on and the system configuration has caused such a serious conflict that the operating system cannot boot.

RESOURCE CONTROLLED BY:

The Award Plug and Play Bios can automatically configure all of the booth and Plug and Play-compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play operating system such as Windows 95. By choosing “manual”, you are allowed to configure the *IRQ Resources and DMA Resources*.

IRQ RESOURCES:

IRQ-n Assigned to:

You may assign each system interrupt a type, depending on the type of device using the interrupt.

PCI/VGA PALETTE SNOOP:

Leave this field at disabled.

4-9. PC HEALTH STATUS

Choose "PC HEALTH STATUS" from the main menu, a display will be shown on screen as below:

Phoenix – Award CMOS Setup Utility
PC Health Status

CPU Warning Temperature	[Disabled]	Item Help
Current CPU Temperature	39° C /102° F	Menu Level ▶
Current SYSTEM Fan Speed	3750 RPM	
Current CPU Fan Speed	3750 RPM	
VCORE	1.44V	
Vccp	1.04V	
3.3V	3.32V	
+5V	5.02V	
+12V	11.85V	
-12V	0.00V	
-5V	0.00V	
VBAT (V)	3.26V	
5VSB (V)	5.04V	
Shutdown Temperature	[Disabled]	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

PC Health Status Setup Screen

The PC Health Status Setup allows you to select whether to choose between monitoring or to ignore the hardware monitoring function of your system.

CPU WARNING TEMERATURE:

Select the combination of lower and upper limits for the CPU temperature. If the CPU temperature extends beyond either limit, any warning mechanism programmed into your system will be activated

CURRENT CPU TEMPERATURE:

This item shows you the current CPU temperature

CURRENT SYSTEM FAN SPEED :

This item shows you the current System FAN speed

VCORE:

This item shows you the current system voltage.

+3.3V/+5V/+12V/-12V/-5V/VBAT/5VSB:

This item shows you the voltage of +3.3V/+5V/+12V/-12V/-5V/VBAT/5VSB.

SHUTDOWN TEMPERATURE:

This item allows you to set the CPU shutdown Temperature. This function is only effective under Window 98 ACPI mode.

4-10. FREQUENCY/VOLTAGE CONTROL

Choose "FREQUENCY/VOLTAGE CONTROL" from the main menu, a display will be shown on screen as below:

Phoenix – Award CMOS Setup Utility Frequency/Voltage Control		
Auto Detect DIMM/PCI Clk	[Enabled]	Item Help Menu Level ▶
Spread Spectrum	[Enabled]	
↑↓→←:Move Enter: Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5: Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults		

Frequency / Voltage Control Setup Screen

This setup menu allows you to specify your settings for frequency/voltage control.

AUTO DETECT DIMM/PCI CLK:

This item allows you to enable or disable auto detect PCI Clock.

SPREAD SPECTRUM:

When the system clock generator pulses, the extreme values of the pulse generate excess EMI. Enabling pulse spectrum spread modulation changes the extreme values from spikes to flat curves, thus reducing EMI. This benefit may in some cases be outweighed by problems with timing-critical devices such as a clock-sensitive SCSI device.

4-11. LOAD FAIL-SAFE DEFAULTS

By pressing the <ENTER> key on this item, you get a confirmation dialog box with a message similar to the following:

Load Fail-Safe Defaults (Y/N) ? N

To use the BIOS default values, change the prompt to "Y" and press the <Enter> key. CMOS is loaded automatically when you power up the system.

4-12. LOAD OPTIMIZED DEFAULTS

When you press <Enter> on this category, you get a confirmation dialog box with a message similar to the following:

Load Optimized Defaults (Y/N) ? N

Pressing "Y" loads the default values that are factory setting for optimal performance system operations.

4-13. PASSWORD SETTING

User is allowed to set either supervisor or user password, or both of them. The difference is that the supervisor password can enter and change the options of the setup menus while the user password can enter only but do not have the authority to change the options of the setup menus.

TO SET A PASSWORD

When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

Enter Password:

Type the password up to eight characters in length, and press < Enter >. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press the < Enter > key. You may also press < Esc > to abort the selection and not enter a password.

 User should bear in mind that when a password is set, you will be asked to enter the password everything you enter CMOS setup Menu.

TO DISABLE THE PASSWORD

To disable the password, select this function (do not enter any key when you are prompt to enter a password), and press the <Enter> key and a message will appear at the center of the screen:

PASSWORD DISABLED!!!
Press any key to continue...

Press the < Enter > key again and the password will be disabled. Once the password is disabled, you can enter Setup freely.

4-14. SAVE & EXIT SETUP

After you have completed adjusting all the settings as required, you must remember to save these setting into the CMOS RAM. To save the settings, select “SAVE & EXIT SETUP” and press <Enter>, a display will be shown as follows:

Phoenix – Award Workstation CMOS Setup Utility	
▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Advanced Chipset Features ▶ Integrated Peripherals ▶ Power Management ▶ PnP/PCI Configura ▶ PC Health Status	▶ Frequency/Voltage Control - Load Fail-Safe Defaults - Load Optimized Defaults - Set Supervisor Password
Save to CMOS and EXIT Y/N)? Y	word etup Saving
Esc : Quit F10 : Save & Exit Setup ↑↓→← : Select Item	
Save Data to CMOS	

When you confirm that you wish to save the settings, your system will be automatically restarted and the changes you have made will be implemented. You may always call up the setup program at any time to adjust any of the individual items by pressing the <Del> key during boot up.

4-15. EXIT WITHOUT SAVING

If you wish to cancel any changes you have made, you may select the “EXIT WITHOUT SAVING” and the original setting stored in the CMOS will be retained. The screen will be shown as below:

Phoenix – Award Workstation CMOS Setup Utility

▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Advanced Chipset Features ▶ Integrated Peripherals ▶ Power Management ▶ PnP/PCI Configura ▶ PC Health Status	▶ Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password word etup Saving
Quit Without Saving (Y/N)? N	
Esc : Quit F10 : Save & Exit Setup	
↑↓→← : Select Item	
Abandon all Datas	

SYSTEM ASSEMBLY

APPENDIX

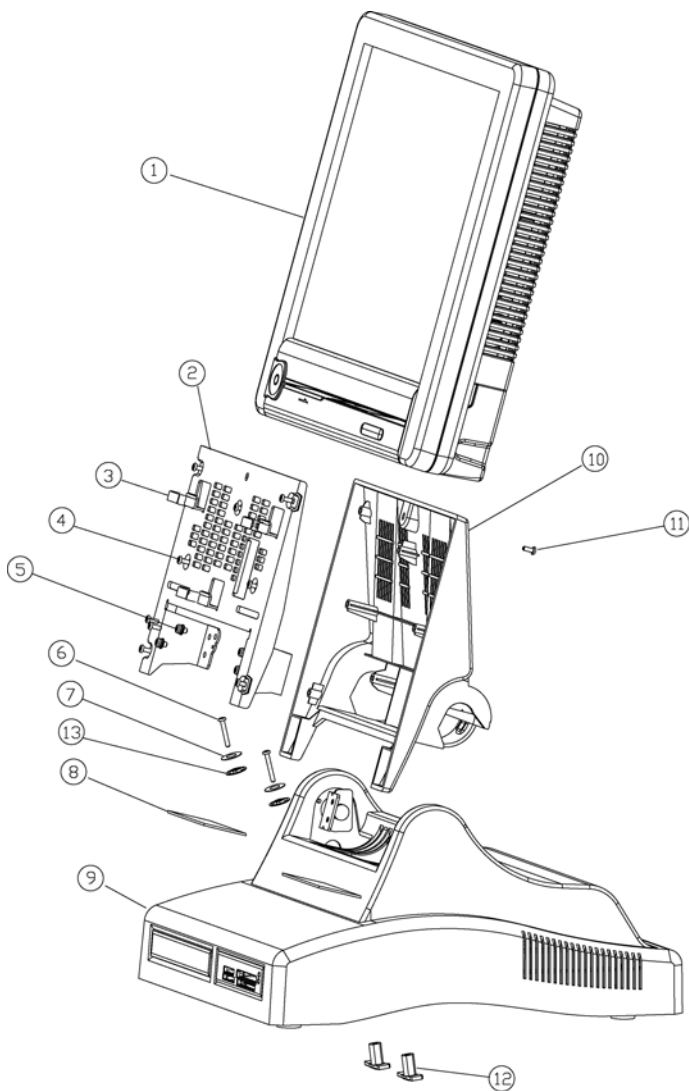
A

This appendix contains exploded diagram of the system.

Section includes:

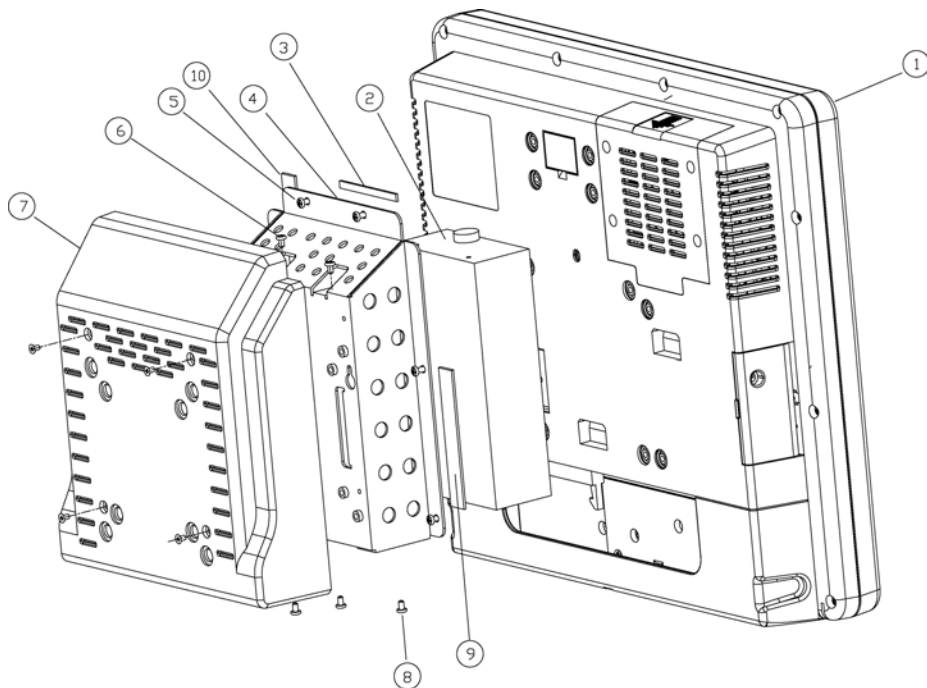
- Exploded Diagram for PS6505-POS Whole System Unit
- Exploded Diagram for PS6505-PPC Whole System Unit
- Exploded Diagram for Front Panel
- Exploded Diagram for PS6505-POS Stand

EXPLODED DIAGRAM FOR PS6505-POS WHOLE SYSTEM UNIT



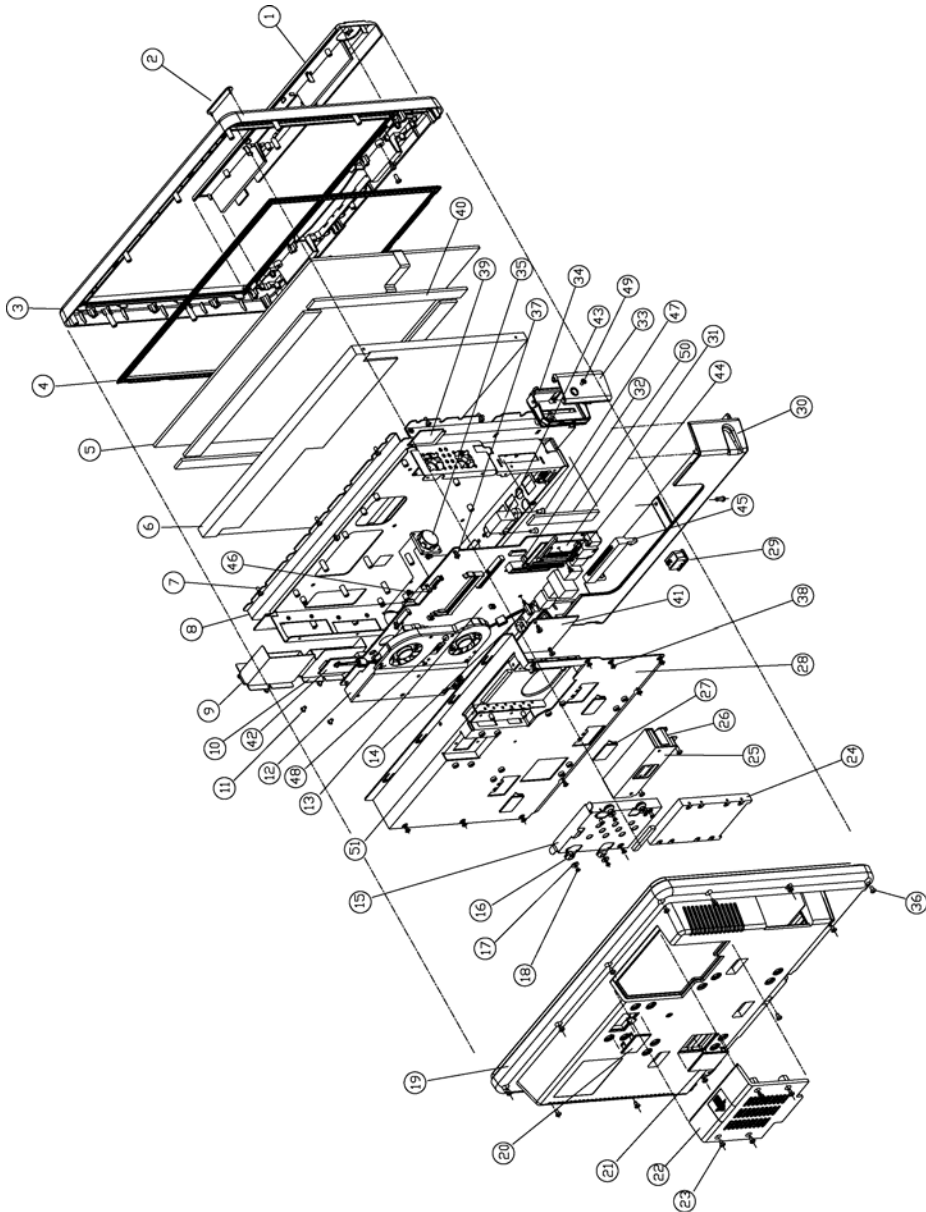
	Name	Part No.	Q'TY
1	PANEL	PANEL ASSY	1
2	ROTATE BRACKET	20-006-03004010	1
3	ROTATE BRACKET PAD	30-013-24100010	3
4	SCREW	22-122-40008011	9
5	SCREW	QSTUD-4-0.7-8-R-SP-W	4
6	SCREW	QSTUD-4-0.7-25-R-N	2
7	WASHER	QWS-4.1-12-1	2
8	ROTATE PAD (BLACK)	30-013-24200010	2
9	STAND	STAND ASSY	1
10	ROTATE (BLACK)	30-001-08200010	1
11	SCREW	22-275-30010011 (22-2753010120)	1
12	SLIP BLOCK	ECSP-8850-SLIP-BLOCK	2
13	WASHER	QWS-6-16-0.4	2

EXPLODED DIAGRAM FOR PS6505-PPC WHOLE SYSTEM UNIT

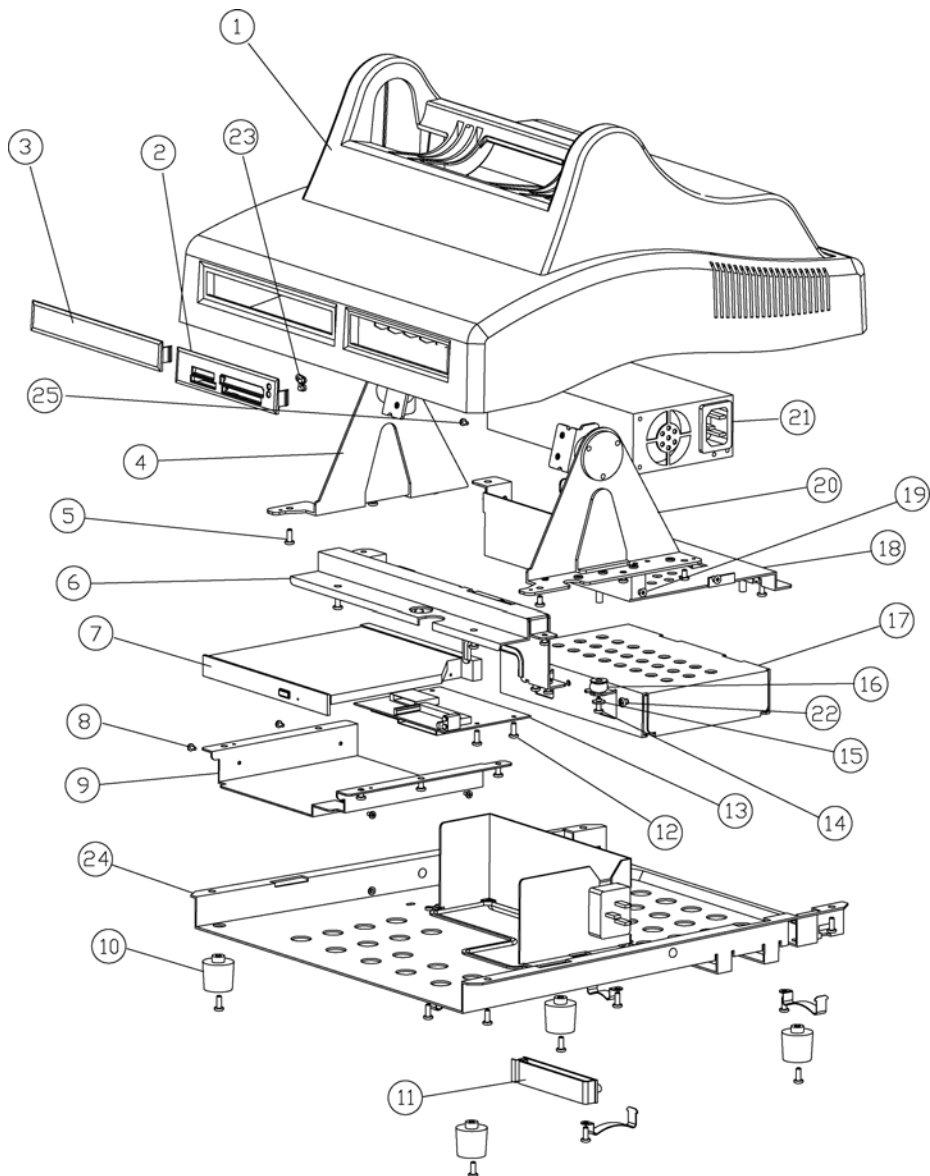


	Name	Part No.	Q'TY
1	SYSTEM	PANEL ASSY	1
2	POWER	ECP180-AC	1
3	POWER BRACKET PAD-B	30-036-24200004	1
4	POWER COVER-U	20-004-03002010	1
5	SCREW	QSTUD-4-0.7-8-R-SP-W	6
6	SCREW	22-215-30060011	6
7	POWER_COVER-ME (BLOCK)	30-001-08100010	1
8	SCREW	QSTUD-UNF-NO6-FLAT	3
9	POWER-BRACKET-PAD C	30-013-24300010	1
10	POWER-BRACKET-PAD A	30-036-24100004	1

EXPLODED DIAGRAM FOR FRONT PANEL

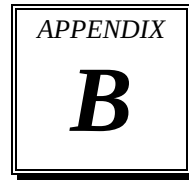


	Name	Part No.	Q'TY
1	C-C-COVER	30-002-08300010	1
2	LENS	30-021-10200010	1
3	PANEL-FRONT	30-002-08900010	1
4	RUBBER-TOUCH SCREEN	30-013-06100010	1
5	TOUCH PANEL	ETS5-150E28P5L3AS1	1
6	TFT PANEL	ELCD-M150XN07	1
7	SCREW	22-122-30080011	19
8	CHASSIS	20-015-03001010	1
9	FAN BRACKET	20-006-03002010	1
10	FAN BRACKET-B	20-006-03003010	1
11	SCREW	22-412-20060011	2
12	Heat Sink ASSY	HF-6505-THERMAL MODULE	1
13	MAIN BOARD	PROX 6505	1
14	Copper Pillar	22-258-30012051	2
15	S_HDD_BRACKET	20-006-03005010	1
16	SILI DAMPING	SA-SILI-DAMPING	4
17	WASHER	QSTUD-3-W	4
18	SCREW	22-115-25080011	4
19	BACK COVER	30-002-08800010	1
20	BACK COVER S2	30-002-08200010	1
21	BACK COVER S	30-002-08100010	1
22	HDD COVER	30-002-08700010	1
23	SCREW	WSTUD-3-0.5-8-F-B	5
24	SLIM HDD	OPTIONAL	1
25	MCR CHASSIS	20-015-03003010	1
26	CARD READER	OPTIONAL	1
27	shield spring	20-09100163004	3
28	CHASSIS UP	20-015-03002010	1
29	SWITCH CABLE	27-019-03104071	1
30	CABLE COVER	30-002-08500010	1
31	CF BOARD	PDAC6505-D1	1
32	Copper Pillar	QSTUD-3-0.5-8	3
33	CF COVER	30-002-08600010	1
34	CF BASE	30-027-08100010	1
35	SPAKER	KS-6300-A	1
36	SCREW	22-145-30010011	12
37	SCREW	22-232-30060211	12
38	SCREW	22-222-30004011	20
39	ANT.	OPTIONAL	2
40	LCD Rubber	QSF-341.9-8-0.5	4
41	MSR PCB	OPTIONAL	1
42	INVERTER PCB	EINVERTOR-QF133V1.15A	1
43	USB CONN CABLE	27-006-03102111	1
44	SCREW	22-215-30060011	5
45	IDE CONN	JP02-20B-D-2.54	1
46	SCREW	22-132-30060011	2
47	SCREW	QSTUD-N04-40-UNC-L8	2
48	RUBBER	30-004-01100000	1
49	SCREW	22-275-30010011	2
50	PAD	30-036-24100004	1
51	GASKET	28-028-00001010	2



	Name	Part No.	Q'TY
1	STAND (BLACK)	30-001-08300010	1
2	5 IN 1 COVER	30-003-08110010	1
3	CD ROM BRACKET	20-006-03001010	1
4	HING A	20-012-02001010	1
5	SCREW	22-122-40008011	20
6	ST BRACKET	20-006-03006010	1
7	CD ROM	OPTIONAL	1
8	SCREW	STUD-J	4
9	CD ROM BRACKET	20-006-03001010	1
10	FOOT	30-004-29100000	4
11	FLAT CABLE CLIP	30-042-04100000	1
12	SCREW	22-122-30080011	4
13	5 IN 1 PCB	OPTIONAL	1
14	SCREW	22-115-25080011	4
15	WASHER	QSTUD-3-W	4
16	SA-SILI RUBBER	SA-SILI-RUBBER	4
17	3.5-HDD-COVER	20-004-03001010	1
18	POWER HOLDER	20-029-03001010	1
19	SCREW	QSTUD-3-W	4
20	HING B	20-012-03002004	1
21	ATX POWER	ECP-180-AC	1
22	SCREW	QSTUD-3	4
23	5 IN 1 LENS	30-021-10100010	1
24	STAND BRACKET	20-006-03007010	1
25	SCREW	22-215-30060011	2

TECHNICAL SUMMARY



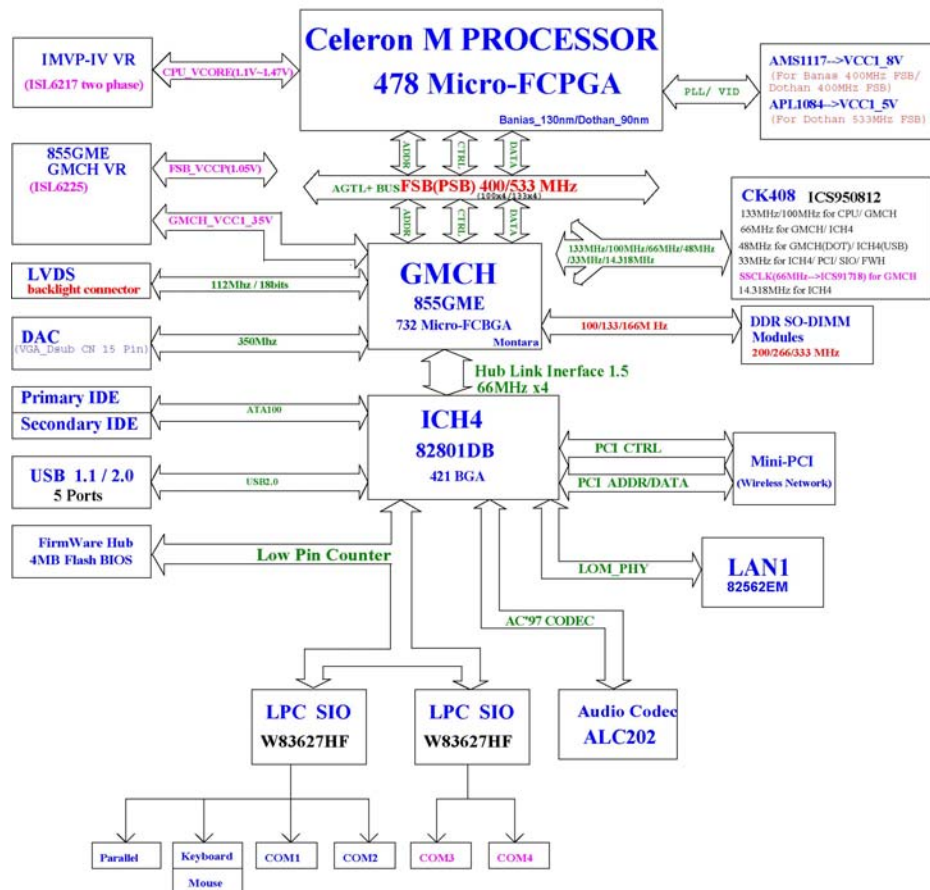
This section will give you a brief introduction of the maps.

Section includes:

- Block Diagram
- Interrupt Map
- RTC (Standard) RAM Bank
- Timer & DMA Channels Map
- I / O & Memory Map

BLOCK DIAGRAM

POS-6505 Block Diagram



INTERRUPT MAP

IRQ	ASSIGNMENT
0	System TIMER interrupt from TIMER-0
1	Keyboard
2	Cascade for IRQ 8-15
3	Serial port 2
4	Serial port 1
5	Parallel port 2
6	Floppy disk
7	Parallel port 1
8	RTC Alarm clock
9	IRQ2 Redir
10	COM3
11	COM4
12	PS/2 Mouse
13	Coprocessor
14	IDE1
15	IDE2

RTC & CMOS RAM MAP

CODE	ASSIGNMENT
00	Seconds
01	Second alarm
02	Minutes
03	Minutes alarm
04	Hours
05	Hours alarm
06	Day of week
07	Day of month
08	Month
09	Year
0A	Status register A
0B	Status register B
0C	Status register C
0D	Status register D
0E	Diagnostic status byte
0F	Shutdown byte
10	Floppy Disk drive type byte
11	Reserve
12	Hard Disk type byte
13	Reserve
14	Equipment byte
15	Base memory low byte
16	Base memory high byte
17	Extension memory low byte
18	Extension memory high byte
30	Reserved for extension memory low byte
31	Reserved for extension memory high byte
32	Date Century byte
33	Information Flag
34-3F	Reserve
40-7f	Reserved for Chipset Setting Data

TIMER & DMA CHANNELS MAP

Timer Channel Map :

Timer Channel	Assignment
0	System timer interrupt
1	DRAM Refresh request
2	Speaker tone generator

DMA Channel Map :

DMA Channel	Assignment
0	Available
1	Available
2	Floppy
3	Available
4	Cascade for DMA controller 1
5	Available
6	Available
7	Available

I/O & MEMORY MAP

Memory Map :

MEMORY MAP	ASSIGNMENT
0000000-009FFFF	System memory used by DOS and application
00A0000-00BFFFF	Display buffer memory for VGA/ EGA / CGA / MONOCHROME adapter
00C0000-00DFFFF	Reserved for I/O device BIOS ROM or RAM buffer.
00E0000-00EFFFF	Reserved for PCI device ROM
00F0000-00FFFFFF	System BIOS ROM
0100000-FFFFFFFF	System extension memory

I/O Map :

I/O MAP	ASSIGNMENT
000-01F	DMA controller (Master)
020-021	Interrupt controller (Master)
022-023	Chipset controller registers I/O ports.
040-05F	Timer control registers.
060-06F	Keyboard interface controller (8042)
070-07F	RTC ports & CMOS I/O ports
080-09F	DMA register
0A0-0BF	Interrupt controller (Slave)
0C0-0DF	DMA controller (Slave)
0F0-0FF	Math coprocessor
1F0-1F8	Hard Disk controller
278-27F	Parallel port-2
2B0-2DF	Graphics adapter controller
2F8-2FF	Serial port-2
360-36F	Net work ports
378-37F	Parallel port-1
3B0-3BF	Monochrome & Printer adapter
3C0-3CF	EGA adapter
3D0-3DF	CGA adapter
3F0-3F7	Floppy disk controller
3F8-3FF	Serial port-1